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TITLE : PRODUCTION OF POWDERY TEA AND POWDERY TEA

ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject product containing increased amount of effective component and capable of keeping flavor, etc., over a long period by subjecting a pressed juice obtained by the successive steaming, grinding and pressing of raw tea leaves to ultrafiltration and reverse osmosis concentration treatment, adding a cyclodextrin to the concentrated liquid and drying the mixture.

SOLUTION: Raw tea leaves are steamed, ground and pressed and the pressed juice is subjected to ultrafiltration and reverse osmosis to obtain a concentrated liquid. A cyclodextrin is added to the concentrated liquid at a ratio of preferably 0.3% (w/w) and the mixture is dried to obtain the objective product. The steaming is preferably carried out with saturated steam of 100°C for 30-40 sec to deactivate $\geq 90\%$ of oxidation enzyme. Preferably, ethanol is added in grinding to extract water-insoluble substances such as tocopherol. It is preferable to freeze the pressed juice before ultrafiltration treatment, e.g. for removing insoluble cream. The concentration can be carried out e.g. by using a spiral-type reverse osmosis membrane made of a synthetic polymer, having an area of 200 cm² and capable of removing $\geq 95\%$ of substance having a molecular weight of ≤ 100 .

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